

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:937347
Seq primer: custom primer used
High quality sequence stop: 510.

Location/Qualifiers
1. .576
 /organism="Mus musculus"
 /strain="C57BL"
 /db_xref="taxon:10090"
 /clone_image="I499743"
 /clone_lib="Sugano mouse liver mlia"
 /sex="female"
 /dev_stage="adult"
 /lab_host="DH10B"
 /note="Organ: liver; Vector: pME18S-FL3; Site_1: DraIII
 (CACCTGTGG); Site_2: DraIII (CACCATGTG); 1st strand cDNA
 was primed with an oligo(dT) primer
 [ATGGGCCCTTTTTTTTTTTT]; double-stranded cDNA was
 ligated to a DraIII adaptor [TGTTGGCTACTGG], digested
 and cloned into distinct DraIII sites of the pME18S-FL3
 vector (5' site CACTGTGG, 3' site CACCATGTG). XhoI should
 be used to isolate the cDNA insert. Size selection was
 performed to exclude fragments <1.5kb. Library
 constructed by Dr. Sumio Sugano (University of Tokyo
 Institute of Medical Science). Custom primers for
 sequencing: 5' end primer CTTCGTCTAATAAGCTGCG and 3' end
 primer CGCACTGCAGCTCGAGCACA."

132 a 144 c 183 g 117 t

BASE COUNT
ORIGIN

Query Match	83.5%	Score 575	DB 42	Length 576
Best Local Similarity	100.0%	Pred. No. 2.3e-138		
Matches 575	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY 1	gtgcgctgaggtcccccgcgcgacgcactcaccatgcgctgctgcttaaccttgggctgac	60		
DB				
2	gtgcgctgaggtcccccgcgcgacgcactcaccatgcgctgctgcttaaccttgggctgac	61		
DB				
QY 61	gcgcgactgggtgtagctcctcctggcgctgctgctgctgcttcttctccggagacctccgc	120		
DB				
62	gcgcgactgggtgtagctcctcctggcgctgctgctgcttcttctccggagacctccgc	121		
DB				
QY 121	gcaggaacctccgagagtgaggttctctgtgagtacacaaacagatcctgtgaaagtgctt	180		
DB				
122	gcaggaacctccgagagtgaggttctctgtgagtacacaaacagatcctgtgaaagtgctt	181		
DB				
QY 181	cagggaatgtcctctgtctgtgtgcaatgagaacaggcggtgatggactaccagtgag	240		
DB				
182	cagggaatgtcctctgtctgtgtgcaatgagaacaggcggtgatggactaccagtgag	241		
DB				
QY 241	gaaaatctggccccctgctctctcttaaatgagctccgctcgctggggcgatgctg	300		
DB				
242	gaaaatctggccccctgctctctcttaaatgagctccgctcgctggggcgatgctg	301		
DB				
QY 301	ggtgaactcgaggcccttgatcatcaccatgctcggctcctggggggctctgtgctcctggg	360		
DB				
302	ggtgaactcgaggcccttgatcatcaccatgctcggctcctggggggctctgtgctcctggg	361		
DB				
QY 361	catcactgtgtgctgtctactgctgcgcgcgcgaagaagaccggaaaccagacaagag	420		
DB				
362	catcactgtgtgctgtctactgctgcgcgcgcgaagaagaccggaaaccagacaagag	421		
DB				
QY 421	cgatgagcggggccatgagagagcaggagagagagtgctgcgcgcgaggagaaaggagggc	480		
DB				
422	cgatgagcggggccatgagagagcaggagagagagtgctgcgcgcgaggagaaaggagggc	481		
DB				
QY 481	ggaaatgaagtcaagacatgatgaatacgcggaaaaatacctggtctgttttaagacaaaa	540		

RESULT 1
 XUS '119658
 DEFINITION
 A1119658 576 bp mRNA EST
 uf05f04.y1 Sugano mouse liver m1ia Mus musculus cDNA clone
 IMAGE:1499743 5' similar to SW:SGPH_HUMAN P53801 PUTATIVE SURFACE
 GLYCOPROTEIN PRECURSOR. ;, mRNA sequence.
 A1119658
 VERSION A1119658.1 GI:3519982
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
 Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 576)
 MARIA,M. HILLIER,L., ALLEN,M., BOWLES,M., DIETRICH,N., DUBUQUE,T.,
 GEISEL,S., KUCABA,T.R., LACY,M., LE,M., MARTIN,J., MORRIS,M.,
 SCHELLENBERG,K., STEPTOE,M., TAN,F., UNDERWOOD,K., MOORE,B.,
 THEISING,B., WYLLIE,T., LENNON,G., SOARES,B., WILSON,R. and
 WATERSTON,R.
 TITLE The WashU-HMMI Mouse EST Project
 JOURNAL Unpublished (1996)
 COMMENT On Jan 9, 1998 this sequence version replaced gi:693487.
 Contact: Maria M/Mouse EST Project
 WashU-HMMI Mouse EST Project
 Washington University School of Medicine

```

Db 482 GGAATGAAGTCAAGACATGATGAATCAGGAAAAATACGGTCTGTTTAAAGACAAA 541
QY 541 cccgatgagaagttcttaagtggtggtgcacacac 575
Db 542 CCCGATGAGAAGTCTTAAGTGGTGGTGCACAC 576

RESULT 2
A1790880 560 bp mRNA EST 02-JUL-1999
LOCUS uk29b06.y1 Sugano mouse kidney mkia Mus musculus cDNA clone
DEFINITION IMAGE:1970387.5, similar to SW:C211_HUMAN P53801 PUTATIVE SURFACE
GLYCOPROTEIN C21ORF1 PRECURSOR ;, mRNA sequence.
ACCESSION A1790880
VERSION A1790880.1 GI:5338596
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus.
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
AUTHORS Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 560)
Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y.,
Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R.,
Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R.,
Waterston, R. and Wilson, R.
The WashU-NCI Mouse EST Project 1999
Unpublished (1999)
On May 18, 1998 this sequence version replaced gi:3137684.
Other ESTs: uk29b06.x1
Contact: Marra M/WashU-NCI Mouse EST Project 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MG1:987127
Possible reversed clone: similarity on wrong strand
Seq primer: custom primer used
High quality sequence stop: 525.
Location/Qualifiers
1..560
/organism="Mus musculus"
/strain="C57BL"
/db_xref="taxon:10090"
/clone="IMAGE:1970387"
/clone_lib="Sugano mouse kidney mkia"
/sex="female"
/dev_stage="adult"
/lab_host="DH10B"
/note="Organ: kidney; Vector: pME18S-FL3; Site_1: DraIII
(CACTGTGTG); Site_2: DraIII (CACCATGTG); 1st strand cDNA
was primed with an oligo(dT) primer
(ATGCGCTTTTATTTTATTTT); double-stranded cDNA was
ligated to a DraIII adaptor (tggtgctcactgc) and
and cloned into distinct DraIII sites of the pME18S-FL3
vector (5' site CACTGTGTG, 3' site CACCATGTG). XhoI should
be used to isolate the cDNA insert. Size selection was
performed to exclude fragments <1.5kb. Library
constructed by Dr. Sumio Sugano (University of Tokyo
Institute of Medical Science). Custom primers for
sequencing: 5' end primer CTTCGCTCTTAAGCTGCG and 3' end
primer CGACCTCGAGTCGACACA."
BASE COUNT 127 a 139 c 178 g 116 t
ORIGIN

Query Match 80.7%; Score 556; DB 60; Length 560;
Best Local Similarity 100.0%; Pred. No. 1.8e-133;
Matches 556; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 gtgcctgaggtcccgccgacgacacactcaccatggtgcctgctaaacctgggctgac 60
Db 5 GTGCCCTGAGGTCCCGCCGACGACGACTCACCATTGGCGCTCTTAACCTTGGGCTGAC 64
QY 61 gccgcactggtgatgctcctcgtggtccgtgctgctgctgctgctgctgctgctgct 120
Db 65 GCCGCACCTGGGTGATGCTCCTCGGTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 124
QY 121 gcaggaaacctcccgagagtggtgctctgagtcacacacacagatcctgtgaagagtgc 180
Db 125 GCAGGAACCTCCGAGAGTGGTGTCTGCTGAGTACACAAACAGATCCTGTGAAGAGTGC 184
QY 181 caggaatgctcctgctgctggtgcaatgagaacaaaggcgtgtatgactaccagtag 240
Db 185 CAGGAATGCTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 244
QY 241 gaaaatttgcctcctgctcctcctgtaattgattcgcctcgcctggtggtgctgctg 300
Db 245 GAAATCTTCCCTCCCTGCTCTCTCTGTAATTAAGTTCGCTCGCTCGTGGGGGTATG 304
QY 301 ggtgaacttcgagccttgatcatcaccatgctgctgctgctgctgctgctgctgctg 360
Db 305 GGTGAACCTCGAGCGCTTGATCATCACCATGTCGCTCGTGGGGGCTCTGTGCTCCTGG 364
QY 361 catactgtgtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 420
Db 365 CATCACTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 424
QY 421 cgatgagcggccatgagagcagcagcagcagcagcagcagcagcagcagcagcagcag 480
Db 425 CGATGACGGCGCCATGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 484
QY 481 ggaatgaagtcaagacatgatgaatcaggaacaaatcagcgtctgtttaagaaacaaa 540
Db 485 GGAATGAAGTCAAGACATGATGAATCAGAAAAAATACGGTCTGTTTAAAGACAAA 544
QY 541 cccgatgagaagttc 556
Db 545 CCCGATGAGAAGTTC 560

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RESULT 3

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A1790880 590 bp mRNA EST 20-OCT-1999
LOCUS um32e10.y1 Sugano mouse kidney mkia Mus musculus cDNA clone
DEFINITION IMAGE:2236266.5, similar to SW:C211_HUMAN P53801 PUTATIVE SURFACE
GLYCOPROTEIN C21ORF1 PRECURSOR ;, mRNA sequence.
ACCESSION A17908707
VERSION A17908707.1 GI:6077507
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus.
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
AUTHORS Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 590)
Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T.,
Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y.,
Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R.,
Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R.,
Waterston, R. and Wilson, R.
The WashU-NCI Mouse EST Project 1999
Unpublished (1999)
On Dec 20, 1995 this sequence version replaced gi:1135005.
Other ESTs: um32e10.x1
Contact: Marra M/WashU-NCI Mouse EST Project 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.

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FEATURES
POLYA=yes.
Location/Qualifiers
1..396
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UI-M-AP0-abm-e-12-0-UI"
/clone_lib="NIH_BMAP_MST"
/dev_stage="27-32 days"
/lab_host="DH10B (Life Technologies)"
/notes="vector: pT7m3D-Pac (Pharmacia) with a modified
polylinker; site_1: Not I; Site_2: Eco RI; The
NIH_BMAP_MST library is a non-normalized library
constructed from mouse striatum. The tag is a string c
nucleotides present between the Not I site and the
oligo-dT track. The library was constructed as descr
by Bonaldo, Lennon and Soares, Genome Research, 6:
791-806, 1996. Tissue provided by Ms. Annie Novakovich,
Zivic-Miller Laboratories.
TAG_LIB=NIH_BMAP_MST
TAG_TISSUE=Corpus-striatum
TAG_SEQ=cccc

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Query Match      23.6%; Score 384; DB 61; Length 396;
Best Local Similarity 100.0%; Pred. No. 1.5e-168;
Matches 384; Conservative 0; Mismatches 0; Indels 0; Gaps
1214  cagccctttgccagatctgtgccacaggccctgtctctagtggctaggtcagcct 1273
396  CAGCCCTTTGCCAAGATCTGTGCCACAGGSCCTGCTCTTATTGGCTAGCTAGGCT 327

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1274 ccagccacatgctccagtgctgcatgctgtctcttttgcgccctctctctggtgccccagaat 1333
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336 ccagccacatgctccagtgctgcatgctgtctcttttgcgccctctctctggtgccccagaat 277
|||||
1334 accatggtgacctaccacacatctctttctgctcttggatgctcatagctggatctgtgtcacc 1393
|||||
276 accatggtgacctaccacacatctctttctgctcttggatgctcatagctggatctgtgtcacc 1393
|||||

1394	aggagaggattggggcccccagcttagtctgtaacacacacttcgagtgacttgatg	1453
bb		
216	AGGAGAGGATTGGGCCCTCCAGCTTAGTCTCTGAATCCACACTTCGACTTGTTGTG	157
1454	caggttttgagagcgggttttgacactagctgtcgacagctgcctggatagcgtgctct	1513
bb		
156	CAGGTTTTCAGAGACCGGTTTTCACCTAGCTGCTCGACAGCTGCTGGATATGCGCTGATCTT	1571

1514 tgcacatgcgcgcctgtgggcatggggattgctgtcagcctcagctgtgtgtgtgct 1573
|||||
96 tgcacatgcccgcctgtggcatggggatttgcctgtcagccctcagctgtgtgtgtgct 37
|||||

b 36 GCTGATTAACGTCCCTAACCA 13

RESULT 6
R260896

DEFINITION
valla05.r1 Soares mouse lymph node NbMLN Mus musculus cDNA clone
IMAGE:722576 5', mRNA sequence.
ACCESSION
AA260696
VERSION
AA260696.1 GI:1897180
KEYWORDS
EST.
SOURCE
house mouse.
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1. (bases 1 to 417)

77	Db	77	GTGCGTCTCTGTGCTGTGGGCGCTAAAGCTGGCCGCGCTGTGGCATCGTCTCTCAGCGCGCTGGGG	136
129	Qy	129	agtgatcatgttgataaatgotogggatatttttcaatgtccattctgctgtgtaattga	188
137	Db	137	AGTGATCATGTTGATAATGTCGGGATATTTTCAATGTCCATGTCTGCTGTGTTAAATGA	196
189	Qy	189	ggacgttcccttcacagagaaaagattttgagaacggtcctcagaacatacacaacctga	248
197	Db	197	GGACGTTCCCTTCACAGAGAAAGATTTTGAGACGGTCTCAGAACATATACAACTGTGA	256
249	Qy	249	cgagcaagtcagctacaactgtttcatcgccgcgggcctctacctctctctcgcgagcgtt	308
257	Db	257	CGAGCAAGTCAGCTACAACTGTTTCATCGCCGGGGCGCTACCTCTCTCTCGGAGGCTT	316
309	Qy	309	ctcctttgtccaaagttgctctcaaacgcgaaggaatacatagtgctagacgcggt	368
317	Db	317	CTCCTTTGTGCAAGTTGCTGTCTCAACAGCGCAAGGAATACATGTGTGGCTAGAGCGCGGT	376
369	Qy	369	cgcctctcctcccccagccctctctattaaagactccgcagactccgctccctcactc	428
377	Db	377	CCGTFCTCTCCCTCCCCAGCCCCCTTCTATTTTAAAGACTCCGGAGACTCCGTCCCACTC	436
429	Qy	429	atctggcgctcctttgggacttgtgaccctagcgagacgttcctcctggccctgcacaaact	488
437	Db	437	ATCTGGGCTCTTTGGGACTTGTGACCCTAGCGAGAGGTCATCGCTGCGCCTGCAGAACT	496
489	Qy	489	gcgccagcctctggaggagacga	513
497	Db	497	GCGCCACGCTCTGGAGGAGACCGA	521

RESULT	3
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LOCUS	450 bp mRNA EST 08-JUL-1998
DEFINITION	uc83el2.y1 Sugano mouse kidney mRna Mus musculus cDNA clone IMAGE:143270 5' similar to WP:F49C12.12 CE03372 ; , mRNA sequence.
ACCESSION	AIO49344
VERSION	AIO49344.1 GI:3297631
KEYWORDS	EST.
SOURCE	mouse mouse.
ORGANISM	Mus musculus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE	1 (bases 1 to 450)
AUTHORS	Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Gelsel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M., Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B., Theisinger,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and Waterston,R.
TITLE	The WashU-HMI Mouse EST Project
JOURNAL	Unpublished (1996)
COMMENT	On Jan 14, 1998 this sequence version replaced gi:1797181. Contact: Marra M/Mouse EST Project WashU-HMI Mouse EST Project Washington University School of MedicineP 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@watson.wustl.edu This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. MGI:916338 putative full length read vector to vector length is Seq primer: custom primer used High quality sequence stop: 449. Location/Qualifiers 1..450 /organism="Mus musculus" /strain="C57BL" /db_xref="taxon:10090" /clone=IMAGE:143270"
FEATURES	
source	

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db    561 GCGGTTCCCTCAAA 574

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u142e07.y1 Sugano mouse liver mlia Mus musculus CDNA clone
IMAGE:1922628 5' similar to WP:F49C12.12 CE03372 ; , mRNA sequence.
A1526757      A1526757.1 GI:4440892
EST.
house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (Bases 1 to 521)
Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylie,T.,
Underwood,K., Stepcoe,M., Theising,B., Allen,M., Bowers,Y.,
Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R.,
Ritter,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R.,
Waterston,R. and Wilson,R.
The WashU-NCI Mouse EST Project 1999
Unpublished (1999)
On May 18, 1998 this sequence version replaced gi:3138333.
Contact: Marra M/WashU-NCI Mouse EST Project 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:978920
Seq primer: custom primer used
High quality sequence stop: 503.
Location/Qualifiers
1..521
/organism="Mus musculus"
/strain="C57BL"
/db_xref="taxon:10090"
/clone="IMAGE:1922628"
/clone_lib="Sugano mouse liver mlia"
/sex="female"
/dev_stage="adult"
/lab_host="DH10B"
/note="Organ: liver; Vector: pME185-FL3; Site_1: DraIII
(CACATGTGG); Site_2: DraIII (CACCATGTG); 1st strand cDNA
was primed with an oligo(dT) primer
[ATGCGCTTTTTTTTTTTTTTTT]; double-stranded cDNA was
ligated to a DraIII adaptor [CTTGCGCTACTGG], digested
and cloned into distinct DraIII sites of the pME185-FL3
vector (5' site CACTGTGTG, 3' site CACCATGTG). XhoI should
be used to isolate the cDNA insert. Size selection was
performed to exclude fragments <1.5kb. Library
constructed by Dr. Sumio Sugano (University of Tokyo
Institute of Medical Science). Custom primers for
sequencing: 5' end primer CTTCCTCTATAAAGCTGCG and 3' end
primer CGACCTGCAGCTCGAGCACA."
BASE COUNT      93 a   174 c   121 g   133 t
ORIGIN
Query Match      40.1%; Score 454; DB 47; Length 521;
Best Local Similarity 99.8%; Pred. No. 3.6e-216;
Matches 504; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 9 ccgcgcttctgtcgcgtcaagtctccacgatccctccctaccctccgccctccatggc 68
Db 17 CCCGCGTCTCTGTGCTCGGCTCAGTCTCCACGAGATCCCCTCCCTACCTCCGCCCTCCATGGC 76

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2 288 21.2 423 26 W62733 md82h07.r1
3 186 13.7 499 27 AA033308
4 68 5.0 349 25 W13380
5 66 4.9 1066 25 W13381
6 25 1.8 495 70 AW144080
7 24 1.8 780 100 AQ288678
8 22 1.6 266 59 AV103256
9 22 1.6 375 36 AA643226
10 22 1.6 452 71 AW159388
11 22 1.6 460 35 C27928
12 22 1.6 592 70 AW148715
13 22 1.6 716 81 B77585
14 21 1.5 254 48 AW157337
15 21 1.5 282 69 AW120624
16 21 1.5 337 31 AA326208
17 21 1.5 344 22 R43019
18 21 1.5 355 20 D15662
19 21 1.5 361 20 M79245
20 21 1.5 448 45 AW1347675
21 21 1.5 459 74 AW206432
22 21 1.5 489 27 AA010921
23 21 1.5 605 79 FR0025704
24 21 1.5 625 26 W87379
25 21 1.5 725 64 AW025351
26 20 1.5 118 39 U94861
27 20 1.5 143 27 AA019809
28 20 1.5 146 30 AA235716
29 20 1.5 154 27 AA058628
30 20 1.5 169 44 AI254451
31 20 1.5 171 49 AI650392
32 20 1.5 171 49 AI656664
33 20 1.5 172 39 AA830912
34 20 1.5 179 48 AI558048
35 20 1.5 182 20 T35985
36 20 1.5 191 64 AW015850
37 20 1.5 194 26 Z74640
38 20 1.5 194 50 AI691092
39 20 1.5 198 20 T35947
40 20 1.5 206 26 Z74659
41 20 1.5 209 38 AA765443
42 20 1.5 217 23 H54611
43 20 1.5 217 69 AW135909
44 20 1.5 224 23 H39727
45 20 1.5 230 44 AI254176

ALIGNMENTS

RESULT 1
LOCUS AA921460 351 bp mRNA EST 20-APR-1998
DEFINITION vy50a09.r1 Stratiagene mouse lung 937302 Mus musculus cDNA clone
IMAGE:1298872 5', mRNA sequence.
ACCESSION AA921460
VERSION AA921460.1 GI:3068239
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE Eukaryota; Chordata; Craniata; Vertebrata; Mammalia;
AUTHORS Geisel, S., Kucab, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
Waterston, R.
TITLE The WashU-HMI Mouse EST Project
JOURNAL Unpublished (1996)
COMMENT On May 18, 1995 this sequence version replaced gi:811195.
Contact: Marra M/Mouse EST Project
WashU-HMI Mouse EST Project
Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:679920

Seq primer: -28m13 rev1 ET from Amersham
High quality sequence stop: 326.

FEATURES

source
Location/Qualifiers
1..351
/organism="Mus musculus"
/strain="C57BL/6 x CBA"
/db_xref="taxon:10090"
/clone="IMAGE:1298872"
/clone_lib="Stratiagene mouse lung 937302"
/sex="female"
/tissue_type="lung"
/dev_stage="6-8 month old"
/lab_host="SOLR (kanamycin resistant)"
/note="Organ: lung; Vector: pBluescript SK-; Site: 1:
EcoRI; Site: 2: XhoI; Cloned unidirectionally. Primer:
Oligo dt. 6-8 month old female lung and 1.5 year old male
lung were source of mRNA. Average insert size: 1.5 kb;
Uni-ZAP XR Vector; -5' adaptor sequence: 5' GAATTCGACGAG
3' -3' adaptor sequence: 5' CTCGAGTTTCTTTTCTTTT 3'.

BASE COUNT 49 a 126 c 99 g 77 t
ORIGIN

Query Match 25.4%; Score 344; DB 40; Length 351;
Best Local Similarity 100.0%; Pred. No. 5.5e-158; Indels 0; Gaps 0;
Matches 344; Conservative 0; Mismatches 0;
QY 97 ctactggcagctgcacccggctcttcacccagagctggttcacatagctcaacatggtcc 156
Db 8 CTACTGGCAGCTGCACCCGGTCTCTTCCACGACAGCTGGTTCATAGCTCAACATGCTCC 67
QY 157 cgggttcctctctgtctgtctactctgagggcgtgctgctgggtggtcactctg 216
Db 68 CCGGTTCTCTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGT 127
QY 217 tgtcactccggcctctctctgagagatgacccgagcagcggggaagctgaggtctt 276
Db 128 TGTCACTCCGGGCTCTTCTGTGGAGATGTAGCCGGCAGCGGGGAGGTAGGTTCTT 187
QY 277 cagcctctctcccgagcctgcgcgcctgggactccagcctcagctccacacccggaga 336
Db 188 CAGCCTCTTCCCGAGCCTGCAGCGCCCTGGGACTCCAGCCTTCACTCCACACCGAGA 247
QY 337 gacccagccacagctctggacgccccgctgccccacccacctctctggaaggatca 396
Db 248 GACCCAGCCACAGCTCTGGAGCGCCGCTGACCCACCAACCTCTCTGGAAGGATCA 307
QY 397 tggattcttcggcagctacgtgactcgtcgtcggtggtgggc 440
Db 308 TGGATTCTTCGGCAGTAGTACGTATGCTCATCGCGGTGTGGGC 351

RESULT 2

LOCUS W62733 423 bp mRNA EST 07-JUN-1996
DEFINITION md82h07.r1 Soares mouse embryo NDME13.5 14.5 Mus musculus cDNA
clone IMAGE:374941 5', mRNA sequence.
ACCESSION W62733
VERSION W62733.1 GI:1369474
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,

Geisel, S., Kucab, T.,
Schellenberg, K.,
Theising, B.,
Waterston, R.
Unpublished (1996)

```

Tel: 314 286 1800
Fax: 314 286 1810
Email: mouse@wustl.wustl.edu
This clone is available royalty-free through LNL ; contact the
IMAGE Consortium (info@image.lnl.gov) for further information.
This read is a RESEQUENCE of a previously sequenced mouse clone.
This read has been verified (found to hit its original self in the
correct orientation)
Seq primer: -40RP from Gibco
High quality sequence stop: 461.
Location/Qualifiers
1. .591
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone_image="38647"
/clone_lib="Soares mouse embryo NBWEL3.5 14.5"
/sex="unknown"
/tissue_type="embryo"
/dev_stage="13.5-14.5dpc total fetus"
/lab_host="DH10B"
/note="Vector: pTT73D-Pac (Pharmacia) with a modified
polylinker; Site1: Not I, Site2: Eco RI; 1st strand cDNA
was primed with a Not I - oligo(dT) primer [5'
TGTTCACATCTGAGTGGAGCGCGCGGAATTTTTTTTTTTTTTTTTTTT
T 3'] , on equal amounts of mRNA from 2 13.5dpc and 2
14.5dpc embryos [total RNA provided by Minoru Ko, Wayne
State Univ., from 2 l]; double-stranded cDNA was ligated to
Eco RI adaptors (Pharmacia), digested with Not I and
cloned into the Not I and Eco RI sites of the modified
pTT73 vector. Library went through one round of
normalization. *
M.Fatima Bonaldo."
BASE COUNT      143 a      175 c      169 g      104 t
ORIGIN
Query Match      67.4%; Score 549; DB 46; Length 591;
Best Local Similarity 100.0%; Fred. No. 1.2e-293;
Matches 549; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 36 aggggacgcggagcgtcgctgcgcggagagcagctctgggcgcggcggtgtctgcg 95
DB 43 AGGGGACGCGGACGCGTCCGCTGCGCGGAGAGCAGCTCTGGGCGCGGCGGTTCTGCG 102

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96 ggcgctcaggggccctgggaacaatggcgctgtgcgcgggccgctgctgggcg 155
Qy

156	QY	tgtcgagtgctggcgctgctagggcgggcgaggacccgacccgacgctcaggggctctg	215
157			
158			
159			
160			
161	Db	tgctgcaggtgctggcgctgctaggggcgggcgaggacccgacccgacgctcaggggctctg	222
162			
163			
164			
165			
166	QY	caagtggaaacacactcagtgctgacctccaattattaacataacagagaataccaaccaga	275
167			
168			
169			
170	Db	CAAGTGGAAACACACTCAGTGTGCTGACCTCCAAATATTAACTAACAGAGAAATACCAACCGA	282
171			
172			
173			
174	QY	ccatgagtgctgttcccaaccagacacagtggaatgcagagccgcggagaccttcogtac	335
175			
176			
177			
178	Db	CCATGAGTGTGTGTTTCCAAACACAGCCAGTGTGAATGCGAGAGCCGCGGAAGCCTTCGCTAC	342
179			
180			
181			
182	QY	tgccaaaaactaccacacttatcactgtgaacctgcgaactattgttataaatcaacc	395
183			
184			
185	Db	TGCCAAAAAACTACCAACACTTATCACTGTCAAACCTGCAACTATTGTTAAAAATATCAACC	402
186			
187			
188	QY	caggagctttacacatgtgagcgctactgcotcaaaagtcacacccaatgcaagtgcct	455
189			
190			
191	Db	CAGGAGCTCTTACCATGTGAGCGCCTACTGCGCTCAAAGTCTACCCCAATGCAAGTCTT	462
192			
193			
194	QY	ctccaaactctaccacacgctcagcatcatgacaaaccccgccacagtagttattga	515
195			
196			
197	Db	CTCCAAACTCTACCCACAGTCAGCATCCATGACAAACCCAGCCGCCCACAGTAGTATTATGA	522
198			
199			

516 caactgr
523 CAP
24 17:28:37

Query Match 50.6%; Score 412; DB 44; Length 470;
Best Local Similarity 99.8%; Pred. No. 1.2e-217;
Matches 462; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

sign quality sequence stop: 135.

FEATURES

	Location/Qualifiers
source	1. .147

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/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:438647"
/clone_lib="Soares mouse embryo NbME13.5 14.5"

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QY	139	tcgggaactccctgaccagctctccaaaagtccaaggcgagtttggcccttcgagactctc	198
Db	61	TCGGGAAACTCCCTGACCAGCTTCCCAAGTTCAGGGCAGTTTGG-CTTCGGACTCTC	119
QY	199	gaactccgcagaaactctctcagccgccccctccctcagaggggttggtccgcagcagcctctg	258
Db	120	GACCTCCGCAGAAACTCTCTCAACGCCCTCCCTCAGAGGGTGTGTCCGAGCAGCCTCTG	179
QY	259	aggggtctcagacacattctacatcagccagacacacatttatgactgctgtgggtggaagga	318
Db	180	AGGGGTCTGCAGA-CATCTACCTCAGCCAGAACCTTATGACTGCTGTGGGTGGAAGCA	238
QY	319	tggggggccctgcagcagcactcaagactattggcagacttgcattgctcattgctcaac	378
Db	239	TGGGGGGCCCTGCAGCAGCATTCAAGACTCTTGGGACTGTGCTCATGGTCACTTGAAC	298
QY	379	ctcttccaagatcgctcgtgtggtgagctgcccgaagcctgactcagggctgaag	438
Db	299	CTCTCTTCCAAGATGTCGCTGTGGTGGAGCTGCCGGA-GCTTGCTCAGGGCTGTAAG	357
QY	439	tgggaacaggtggacactggttcttcttcttctcactcctgcacagctgcctcacc	498
Db	358	TGGGAACAGGTGGACACATGGTCTCTTCTACCTCGTGCCTATCTGCCAGCTGCCTACC	417
QY	499	ctgctgggtggcctgactgtgctgttcttctcacttttaaga	538
Db	418	CTGCTGGTGGCGTGTACTGTCTCTTCTCCTACTTTAAGA	457
RESULT	3		
LOCUS	AI505719/c		
DEFINITION	VK31e08.x1 Stragatene mouse Tcell 937311 Mus musculus cDNA clone IMAGE:958214 3', mRNA sequence.		
ACCESSION	AI505719		
VERSION	AI505719.1	GI:4403570	
KEYWORDS	EST.		
SOURCE	house mouse.		
ORGANISM	Mus musculus		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
AUTHORS	1 (bases 1 to 381) Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylie,T., Underwood,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Waterston,R. and Wilson,R.		
TITLE	The WashU-NCI Mouse EST Project 1999		
COMMENT	Unpublished (1999) On May 7, 1998 this sequence version replaced gi:3121530. Contact: Maria M/WashU-NCI Mouse EST Project 1999 Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@wustl.wustl.edu This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information. Miri:547006 This clone was previously sequenced on the 5' end only, this new data is from the 3' end High quality sequence stop: 366. Location/Qualifiers 1. .381 /organism="Mus musculus" /db_xref="taxon:10090" /clone="IMAGE:958214" /clone_lib="Stragatene mouse Tcell 937311" /dev_stage="M30 CD4+ cells" /tissue_type="Tcell" /lab_host="SO:R (kanamycin resistant)" /note="organ: blood; vector: pBluescript SK-; Site_1: EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer:		
FEATURES	source		

Db 105 GGAGCAGGAGGTGACCGCGCCCGCTTTTGAACCTCAATAAAGAACCGGTTCGCCCTCA 46

QY 565 a 565

Db 45 A 45

RESULT 8

AA475668 508 bp mRNA EST 18-JUN-1997
 LOCUS Vb59f08.r1 Soares mouse mammary gland NBMNG Mus musculus cDNA clone
 DEFINITION IMAGE:876239 5' similar to WP:F49C12.12 CB03372 ;, mRNA sequence.

ACCESSION AA475668
 VERSION AA475668.1 GI:2203519
 KEYWORDS EST.
 SOURCE house mouse.

ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
 Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE
 AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Stepcioe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.

TITLE The WashU-HMI Mouse EST Project
 JOURNAL Unpublished (1996)
 COMMENT On Apr 14, 1993 this sequence version replaced gi:315338.

Contact: Marra M/Mouse EST Project
 WashU-HMI Mouse EST Project
 Washington University School
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810

Email: mouseest@wustl.edu
 This clone is available royalty-free through LLNL; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.

Seq primer: -28ml3 rev2 ET from Amersham
 High quality sequence stop: 436.

FEATURES

source
 1. 508
 Location/Qualifiers
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="IMAGE:876239"
 /clone_lib="Soares mouse mammary gland NBMNG"
 /sex="male"
 /tissue_type="mammary gland"
 /dev_stage="4 weeks"
 /lab_host="DH10B"
 /note="Organ: mammary gland; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5', TGTTACCAATCTGAGTGGAGCGCCGCGAATGTTTTTTTTTTTTTTTTTTT T 3']; double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. RNA provided by Dr. Minoru Ko, Wayne State Univ. Library constructed and normalized by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 90 a 172 c 111 g 135 t

Query Match 40.9%; Score 462.8; DB 34; Length 508;
 Best Local Similarity 99.6%; Pred. No. 8.3e-97;
 Matches 464; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 9 cccggcttctgctccgctcagttctcagcgatccctccctcactccgctccatggc 68
 |||||
 Db 43 CCCGGCTTCTGTGCTCCGCTCAGTCTCCAGCGATCCCTCCCTACCTCGCGCCCTCCATGGC 102

QY 69 gtgcgtctctgtgtgggcttaagctggcgctgtgscatcgtcctcagcgctggg 128
 |||||
 Db 103 GTGCTCTCTGTGTGGGCTTAAGCTGGCGGCTGTGGCATCTGCTCAGCGCTGGGG 162
 |||||
 QY 129 agtgataatgttgataatgctcgggatatttttcaattgtctgtgtgtaattga 188
 |||||
 Db 163 AGTGATCATGTTGATATGCTCGGATATTTTCAATGTCCATTCTGCTGTGTTAATGA 222
 |||||
 QY 189 ggacgttcccttcacagagaaattttgagacggtctctcagacatatacaacctgta 248
 |||||
 Db 223 GGACGTTCCCTTCACAGAGAAAGATTGAGAACGGTCTCTCAGAACATATACAACCTGTA 282
 |||||
 QY 249 cgagcaagtgcagctacaactgtttcctcgcggcggtctcctcctcctcgaagcctt 308
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 Db 283 CGAGCAAGTCAGCTACAACTGTTTCATCGCGCGGCGCTCTACCTCCCTCGGAGGCTT 342
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 QY 309 ctctctctcccaagttcgtctcaacaagcgcaaggaatacatgtgctgtagagcggt 368
 |||||
 Db 343 CTCCTTCTGCCAAGTTCGTCTCAACAAGCGCAAGGAATACATGTTGCGCTAGAGCGTGT 402
 |||||
 QY 369 cgcctctcctcccccagccccctctctatttaagactccgagactccgctcccaactc 428
 |||||
 Db 403 CGGCTCTCCCTCCCGCGCCCTTCTCTATTAAAGACTCCGCGAGACTCGGTCCTCCACTC 462
 |||||
 QY 429 atctggcgtctcttgggactgtgacctagcgagacgtcatccct 474
 |||||
 Db 463 ATCTGGCGCTTTGGGACTTGTGACCTTAGCGAGACGTATCCCT 508
 |||||

RESULT 9

AA388260

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

On Sep 12, 1996 this sequence version replaced gi:1407077.

Contact: Marra M/Mouse EST Project

WashU-HMI Mouse EST Project

Washington University School

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: mouseest@wustl.edu

This clone is available royalty-free through LLNL; contact the

IMAGE Consortium (info@image.llnl.gov) for further information.

MGI:462239

High quality sequence stop: 477.

Location/Qualifiers

1. 530

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="IMAGE:761319"

/clone_lib="KO mouse embryo 11 5dpc"

/sex="pooled"

/tissue_type="embryo"

/dev_stage="11 5dpc"

/lab_host="DH10B"

FEATURES

source

Db 517 TATTGACAACTGTATACGGTTTCAGCAACTACTCATCCCAAGGCAAAGGATCCAAGT 576
 QY 570 ttgatgccggcagct 584
 Db 577 TTGATGCCGCAGCT 591

RESULT 2

A1287088 470 bp mRNA EST 24-NOV-1998
LOCUS ui75e01.v1 Sugano mouse liver mlia Mus musculus cDNA clone
DEFINITION IMAGE:1888248 5', mRNA sequence.

ACCESSION A1287088
VERSION A1287088.1 GI:3926841
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
 Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE
AUTHORS Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
 Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
 Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
 Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
 Waterston,R.

TITLE The WashU-HMI Mouse EST Project
JOURNAL Unpublished (1996)
COMMENT On Jan 19, 1998 this sequence version replaced gi:2287581.
 Contact: Maria M/Mouse EST Project
 WashU-HMI Mouse EST Project
 Washington University School of MedicineP
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: mouseest@watson.wustl.edu

This clone is available royalty-free through LNL ; contact the
 IMAGE Consortium (info@image.lnl.gov) for further information.
 MG1:972572

FEATURES
 Seq primer: custom primer used
 High quality sequence stop: 453.
 Location/Qualifiers
 1..470
 /organism="Mus musculus"
 /strain="C57BL"
 /db_xref="taxon:10090"
 /clone="IMAGE:1888248"
 /clone_lib="Sugano mouse liver mlia"
 /sex="female"
 /dev_stage="adult"
 /lab_host="DH10B"
 /note="Organ: liver; Vector: pME18S-FL3; Site_1: DraIII
 (CACTGTG); Site_2: DraIII (CACCATGG); 1st strand cDNA
 was primed with an oligo(dT) primer
 [ATGCGCCCTTTTTTTTTTTTT]; double-stranded cDNA was
 ligated to a DraIII adaptor [TGTTGGCTACTGG], digested
 and cloned into distinct DraIII sites of the pME18S-FL3
 vector (5' site CACTGTGTC, 3' site CACCATGG). XhoI should
 be used to isolate the cDNA insert. Size selection was
 performed to exclude fragments <1.5kb. Library
 constructed by Dr. Sumio Sugano (University of Tokyo
 Institute of Medical Science). Custom primers for
 sequencing: 5' end primer CTTCGTCTTAAGAAGTCGCG and 3' end
 primer CGAAGCTGAGCTCGAGCACA."

BASE COUNT 117 a 145 c 120 g 88 t
ORIGIN

Query Match 57.3%; Score 465.8; DB 44; Length 470;
 Best Local Similarity 99.6%; Pred. No. 2e-105;
 Matches 468; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 56 gtgcggaagacgactgtatgcccggcggttctgcgcgcgcctcaaggccctgaga 115


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2 153 24.7 361 30 AA231372
3 40 6.5 352 46 A1418805
4 40 6.5 380 42 A1093053
5 40 6.5 380 74 AW204025
6 40 6.5 418 69 AW139820
7 40 6.5 431 63 A1978828
8 40 6.5 576 30 AA206019
9 20 3.2 291 28 AA077918
10 20 3.2 422 26 W5873
11 19 3.1 132 50 AV029631
12 19 3.1 151 51 AV049800
13 19 3.1 181 49 AV022314
14 19 3.1 243 69 AV216748
15 19 3.1 508 38 AA539250
16 19 3.1 526 87 AO797761
17 19 3.1 541 99 AQ174660
18 19 3.1 584 47 A1512971
19 19 3.1 646 74 AW185411
20 18 2.9 333 32 AA371823
21 18 2.9 333 32 AA332212
22 18 2.9 419 27 AA011366
23 18 2.9 436 23 H20808
24 18 2.9 438 31 AA292025
25 18 2.9 441 27 W82201
26 18 2.9 444 91 AQ082157
27 18 2.9 452 90 AQ007143
28 18 2.9 464 91 AQ138013
29 18 2.9 468 87 AQ815080
30 18 2.9 482 36 AA618290
31 18 2.9 501 30 AA210204
32 18 2.9 521 100 AQ335757
33 18 2.9 538 82 AQ696260
34 17 2.7 124 21 T98172
35 17 2.7 129 59 AV095728
36 17 2.7 136 45 A1331249
37 17 2.7 141 60 AV171321
38 17 2.7 142 59 AV105518
39 17 2.7 142 60 AV150775
40 17 2.7 149 59 AV073129
41 17 2.7 150 49 AV017846
42 17 2.7 154 33 AA437703
43 17 2.7 161 61 A1837213
44 17 2.7 162 59 AV105498
45 17 2.7 164 60 AV121697

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ALIGNMENTS

```

RESULT 1
C86502/c 588 bp mRNA EST 11-MAR-1998
LOCUS C86502 Mouse fertilized one-cell-embryo CDNA Mus musculus CDNA
DEFINITION C86502 Mouse fertilized one-cell-embryo CDNA Mus musculus CDNA
ACCESSION C86502
VERSION C86502.1 GI:2918459
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 588)
Ko.M.S.H. Kitchen, J.R., Wang, X., Threat, T.A., Sun, T.,
DePalma, G.E., Liang, Y., Kargul, G.J., Sharara, R., Paonessa, P.D. and
Dol, H.
Systematic analyses of genes expressed in fertilized mouse eggs (The
ERATO/Dol Project at Wayne State University)
Unpublished (1998)
On Sep 12, 1996 this sequence version replaced gi:1407150.
Contact: Hirofumi Dol
Dol Bioasymmetry Project, ERATO
Japan Science and Technology Corporation (JST)
WBG Marine East 12F, 2-6 Nakase, Mihama-ku, Chiba 261-71, Japan

```

```

Email: hdebioa.jst.go.jp.
Location/Qualifiers
FEATURES
source 1. 588
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="J0227610"
/clone.lib="Mouse fertilized one-cell-embryo CDNA"
/dev stage="fertilized one-cell-embryo"
BASE COUNT 145 a 134 c 193 g 112 t 4 others
ORIGIN
Query Match 52.0% Score 322; DB 39; Length 588;
Best Local Similarity 100.0%; Pred. No. 1.1e-163;
Matches 322; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 298 agaggggccagtcattctcttgagtaggggtgaagggccctccctcctcgaagtg 357
Db 391 AGGAGGGCCAGTCTCATCTTCTGAGTAGGGGTGAAGGCCCTCCATTCCTCGAAAGTG 332
QY 358 gacgcgtctctctgctcttaccatttgcaaggtccatgctcctcaggtctgatgcct 417
Db 331 GACGGGTCTCTCTCTCTCTTACCTTTGCAAGGTCCATGCTCTTCAAGGCTGATGCCCT 272
QY 418 ctgggtgctgattgctcactgggccaattataggcagctcctctagctgctcatttagca 477
Db 271 CTGGGTGCTGATTGCTACTGGGCCAATATATAGGCGAGCTCCCTAGTCTGCCATCTAGCA 212
QY 478 gccaatccagtcggcctgacctgaagcagggcctcctaatgtttgccatactctctccc 537
Db 211 GCCAATCCAGTGGCCCTGACCATGAAGCAGGCCCTCAATGTTGGCATACTTCTCTCC 152
QY 538 cagcagcccaatgaagccaggggaaatggcctaccatccctcctcgaagggctctctc 597
Db 151 CAGCAGCCCAATGAAGCCAGGGGAAATGGCTACCATCCCTTACCCCTAGCCAGGGCTCTCTC 92
QY 598 ctgttgcccaagggcccaactta 619
Db 91 CTTGTTGCCCAAGGCCCACTTA 70
RESULT 2
AA231372 361 bp mRNA EST 26-FEB-1997
LOCUS AA231372
DEFINITION AA231372 Soares mouse 3NWE12 5 Mus musculus CDNA clone
IMAGE:672254 5', mRNA sequence.
ACCESSION AA231372
VERSION AA231372.1 GI:1853670
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 361)
AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
Waterston, R.
TITLE The WashU-HMI Mouse EST Project
JOURNAL Unpublished (1996)
COMMENT On May 19, 1995 this sequence version replaced gi:810982.
Contact: Maria M/Mouse EST Project
WashU-HMI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:411958

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24 17:26:18